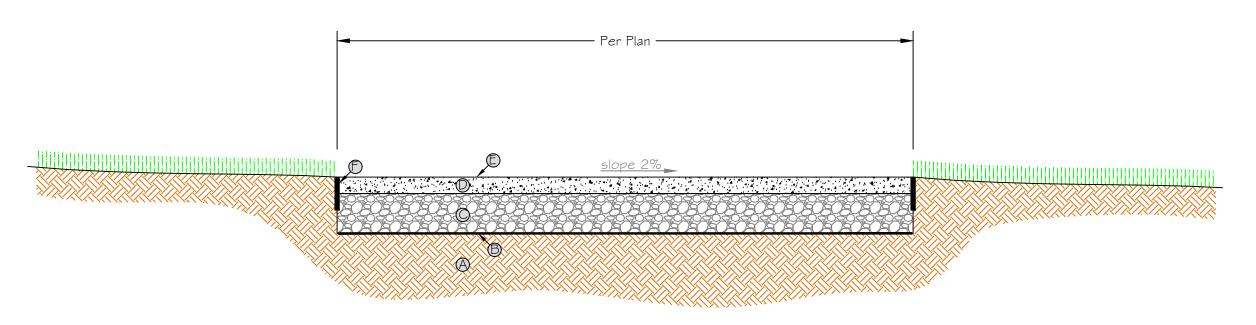


## Gravel Surfaced Pathway Detail

Not to Scale



#### Pathway Construction Notes:

- A. <u>Subgrade</u>: Existing subgrade materials shall be scarified to a depth of 8", water conditioned (as required) and re-compacted to improve subgrade uniformity and support. Compaction shall be a minimum of 95% of maximum laboratory dry density per AASHTO T99 or ASTM D698.
- B. Geotextile: Optional geotextile, see note below.
- C. Crushed Base Course: Base course material shall be crushed, minimum 10" thickness of 1.5" minus material meeting the applicable gradation of the MPWSS table found in section 02234 part 2.4.A. This material shall be placed in lifts not exceeding 6" and shall be compacted to a minimum of 95% of maximum laboratory dry density per AASHTO T99.
- D. Surface Course: Surface course material shall be a crushed, minimum 3" thickness of 0.75" minus material, well compacted meeting applicable gradation of MPWSS.
- E. Final Grading: Surface of pathway shall not be vary more than 3/4" higher, and no lower, than adjacent lawn. Surface shall be cross-sloped to drain easterly with a standard 1/4 inch per foot or 2% grade.
- F. Edging: Install 5" deep HDPE edging to sufficient depth that surface drainage off of pathway will not be blocked. Color shall be dark earth tone or black.

#### Additional Notes:

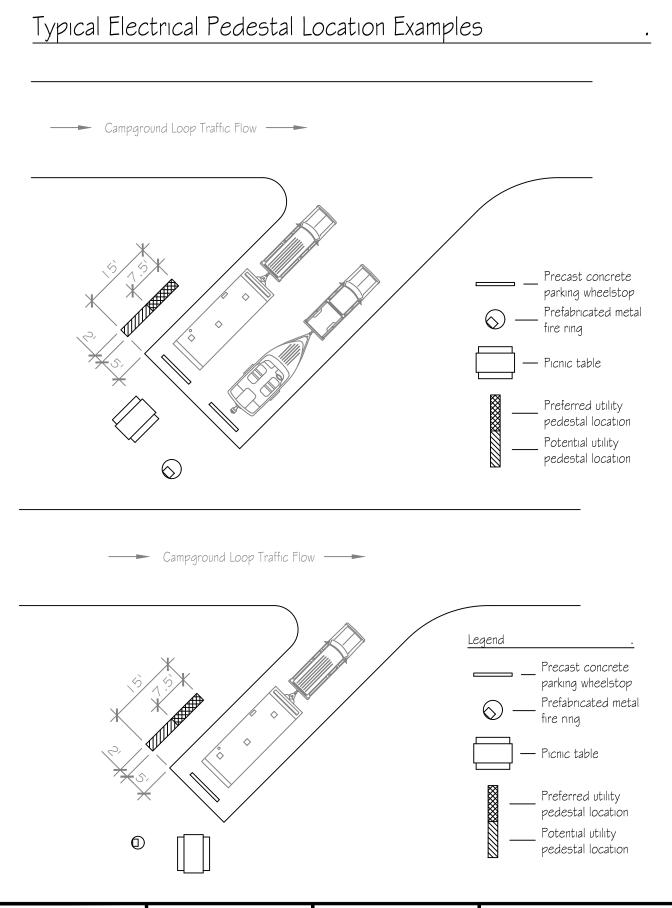
- I. Minimum Standards: All work shall meet the minimum standards established in the current edition of the Montana Public Works Standard Specification (MPWSS). Some specifications in this detail or other project plan sheets and attachments may exceed the MPWSS.
- 2. Earthwork: To prepare for pathway construction all topsoil, root zone and any soft, frozen or otherwise unsuitable materials shall be removed.
- 3. Geotextile: If native subgrade material is found to contain significant amounts of clay or silt, engineer may direct contractor to install a geotextile. The geotextile shall be MIRIFI 500x or approved equal.
- 4. Surface Course: Contractor shall submit a surface course material sample and gradation to engineer for approval prior to installation.

R Smith	August 16, 2016
DRAWN BY:	DATE:
J Thomas	August 16, 2016
J Thomas CHECKED BY:	August 16, 2016 DATE:

REVISED BY: DATE:	APPROVED BY: DATE:
APPROVED BY: DATE:	APPROVED BY: DATE:



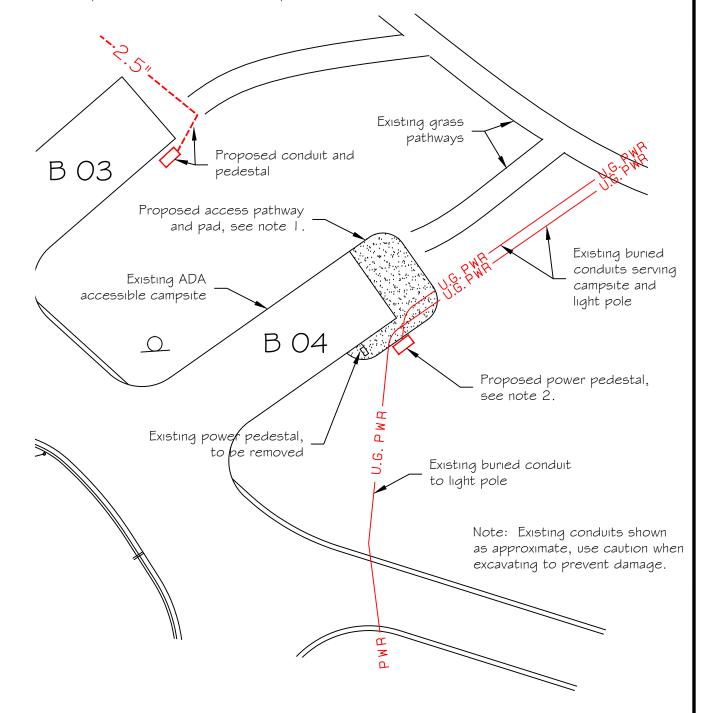
Pathway Details
Logan State Park Electrification and Dock Project



# Campsite B-04 Improvements

Campsite B-04 Construction Notes:

- 1. Access Pad / Pathway: Contractor shall construct an accessible pathway around the end of the campsite to allow for access to plug in the RV unit. The pad shall extend at least 10 feet beyond the end of the asphalt pad and fill in the 5 feet between the asphalt and the new power pedestal. Contractor shall clear and grub existing topsoil and vegetation, then fill up to asphalt pad level with  $\frac{3}{4}$  crushed compacted MPWSS material.
- 2. Power Pedestal: The campsite has an existing power pedestal that has suffered regular damage from backing vehicles. The intent is to remove the old unit, relocate the end of the conduit / power feed, and install a new pedestal in a better location.



R Smith	August 16, 201
DRAWN BY:	DATE:
J Thomas	August 16, 201

CHECKED BY: DATE APPROVED BY:

REVISED BY:



Pededstal Location & ADA Pad Details Wildlife & Park Logan State Park Electrification and Dock Project

### Keyed Notes:

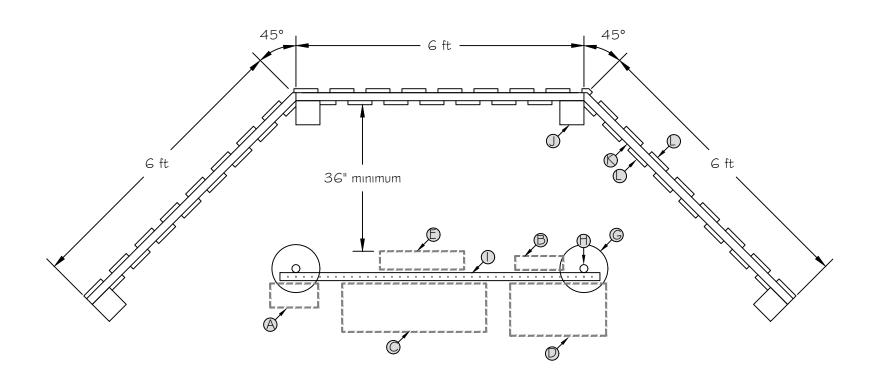
- A. Proposed Meter, approximately 12" wide by 20" high x 5" deep
- B. Proposed Sub-Meter, approximately 12" wide by 10" high x 4" deep
- C. Proposed CT Enclosure, approximately 36" wide x 48" high x 12" deep
- D. Proposed MDP, approximately 24" wide x 73.5" high x 13" deep
- E. Existing Panel A, remove and relocate to backside
- F. Finished grade
- G. Proposed Foundation Piers, set 2" above finished grade, tops sloped to drain from center toward edges, see note this page for construction specifications
- H. Proposed Upright 2" Schedule 40 Steel Pipe, 8 feet in length with 24" embedment in foundation
- I. Proposed Cross Piece 2" Unistrut, 6.5 feet in length, install as many as required to mount panels
- J. Proposed 6" x 6" x 8 ft treated wooden post
- K. Proposed 2" x 4" x 6 ft treated wooden framing members
- L. Proposed  $\frac{5}{8}$ " x 6" x 6 ft wooden fence pickets, painted brown

Concrete Piers Note: Piers are 12" diameter by 48" deep each, composed of 3,000 psi concrete. Vertical reinforcing in the piers will consist of four vertical #4 bars spaced equally around the pier 3" from the edge. Horizontal reinforcing shall consist of at least three hoops of #3 bar set at depth of 2", 8" and 14" below the top of the pier.

Steel Upright Note: Each pier shall have an eight foot long 2"Ø schedule 40 steel pipe, embedded 2 feet into the concrete pier. Pipe shall be powder coated brown.

Service Assembly Support Structure (Elevation View):

Scale:  $\frac{1}{2}$  = 1 foot



Service Assembly Support Structure and Screen Detail (Plan View):

Scale:  $\frac{1}{2}$  = 1 foot

R Smith	August 16, 2016
DRAWN BY:	DATE:
J Thomas	August 16, 2016
J Thomas CHECKED BY:	August 16, 2016 DATE:

EVISED BY: DATE:	APPROVED BY: DATE:
PPROVED BY: DATE:	APPROVED BY: DATE:

